

FILONENKO, Serafim Nikonovich; KOSTYUKOV, Viktor Aleksandrovich; RODIN, Petr Rodionovich; GUS'KOV, Boris Sergeyevich; KADUCHENKO, A.G., inzhener, redaktor; SERDYUK, V.K., inzhener; Fedakter; RUDENSKIY, Ya.V.; tekhnicheskij redaktor.

[Concise manual for tool operators at machine-tractor stations]
Kratkiy spravochnik stanochnika MTS. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 319 p.
(Machine-tractor stations) (Metalwork) (MLRA 9:6)

SERDYUK, V. K.

KIRAKOVSKIY, N.F., dotsent; GLAGOLEV, N.M., professor; SHELUD'KO, I.M.
dotsent, redaktor; SERDYUK, V.K., inzhener, redaktor; HUDENSKIY,
Ye. V., tekhnicheskii redaktor.

[Stationary internal combustion engines; operation, adjustment,
testing. A reference manual] Statsionarnyye dvigateli vnutrennego
sgoraniya; kontrol', naladka, isputanie. Spravochnoe rukovodstvo.
Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, Ukrain-
skoe otd-nie, 1955. 402 p. (MLRA 8:11)
(Gas and oil engines)

KIRAKOVSKIY, Nikolay Feliksovich; SERDYUK, V.K., inzhener, redaktor;
HUDANSKIY, Ya.V., ~~tekhnicheskiy redaktor.~~

[Repair and assembly of stationary internal combustion engines]
Remont i montazh statsionarnykh dvigatelei vnutrennego sgoraniia.
Izd.3-e, dop. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi
lit-ry, 1955. 511 p. (MLRA 8:11)
(Gas and oil engines--Maintenance and repair)

NESTERENKO, Semen Leont'yevich; GLAZKOV, P.G., inzh., retsenzent;
SERDYUK, V.K., inzh., red.; LYKHOTA, M.A., tekhn.red.

[Instructions on safety techniques for foundrymen pouring
metal into molds] Pamiatka po tekhnike bezopasnosti dlia
zalivechikov form metallom. Kiev, Gos. nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1956. 33 p. (MIRA 12:9)
(Founding--Safety measures)

LOPATA, A.Ya., kandidat tekhnicheskikh nauk; MAN'KO, N.S., inzhener;
MOSENKIS, M.G., inzhener; KOSTENKO, G.F., redaktor; TRYASUNOVA,
P.G., redaktor; SERDYUK, V.K., inzhener, redaktor.

[The 1336M and 1336R turret lathes; directions for maintaining
and adjusting] Tekarno-revol'vernye stanki 1336M i 1336R; ruke-
vedstvo po obsluzhivaniyu i naladke. Izd.2-ee. Pod red. G.F.
Kostenko i P.G.Triasunova. Kiev, Gos.nauchno-tekhn.izd-vo mashi-
nestreit. lit-ry, 1956. 64 p. (MIRA 9:6)

1.Kiyevskiy zavod stankov-avtomatov.
(Lathes)

TARASOV, Viktor Savvich; ZIMENKO, P.M., inzhener, retsenzent; SERDYUK, V.K.,
inzhener, redaktor; LYKHOTA, M.A., tekhnicheskii redaktor

[Safety engineering manual for conveying machinery operators]
Pamiatka po tekhnike bezopasnosti dlia takelazhnikov. Kiev, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 70 p. (MIRA 9:8)
(Conveying machinery--Safety measures)

RABINOVICH, Avraam Nokhimovich, professor, doktor tekhnicheskikh nauk;
SERDYUK, V.K., inzhener, redaktor; GAVRILOV, A.N., doktor tekhnicheskikh nauk, professor, retsenzent; RUDENSKIY, Ya.V., tekhnicheskiiy redaktor...

[Automatization and mechanization of selected processes in machine and instrument construction] Avtomatizatsiya i mekhanizatsiya sborochnykh protsessov v mashinostroenii i priborostroenii. Kiev, Gos.naucho-tekh.izd-vo mashinostroitel'noi lit-ry, 1956. 171 p.
(MIRA 9:4)

(Automation) (Machinery industry)

GRIN', Leonid Petrovich; DZHUVAGO, V.P., kandidat tekhnicheskikh nauk, retsenzent; KONDAK, N.M., kandidat tekhnicheskikh nauk, redaktor; SERDYUK, V.K., inzhener, redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskiiy redaktor

[Gas generators for power in agriculture] Silovye gazogeneratornye ustanovki dlia sel'skogo khoziaistva. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 195 p. (MLRA 9:12)
(Gas producers)

KOSYACHENKO, Aleksey Petrovich; MOLCHAN, Ivan Andreyevich; YAREMENKO, M.T.,
inzhener, retsenzent; SERDYUK, V.K., inzhener, redaktor izdatel'-
stva; RUDENSKIY, Ya.V., tekhnicheskii redaktor

[Machine-shop practice] Slesarnoe delo. Kiev, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1956. 226 p. (MLRA 9:10)
(Machine-shop practice)

LEVITSKIY, Georgiy Sergeyevich; SEMENYUK, I.M.; SERDYUK, V.K., inzhener,
redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor.

[Chrome plating of machine parts and tools] Khromirovanie detalei
mashin i instrumenta. Kiev, Gos. izd-vo mashinostroitel'noi lit-ry,
1956. 265 p. (Chromium plating) (MLRA 9:5)

ROSOV, Serafim, Vasil'yevich, kandidat tekhnicheskikh nauk, dotsent;
SERDYUK, V.K., inzhener, redaktor; RUDEMSKIY, Ya.V., tekhnicheskii redaktor.

[Course in mechanical drawing] Kurs chercheniia. Izd. 4-oe,
isp. Kiev, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1956.
306 p. (Mechanical drawing) (MLRA 9:5)

KIRAKOVSKIY, Nikolay Feliksovich; CHUDNOVSKIY, S.V., inzhener, retsenzent;
SHELUD'KO, I.M., kandidat tekhnicheskikh nauk, redaktor: SERDYUK,
V.K., inzhener, redaktor izdatel'stva; HUDENSKIY, Ya.V., tekhnicheskii redaktor

[Internal combustion engines; a manual for mechanics] Dvigateli
vnutrennego sgoraniia; rukovodstvo dlia mashinistov. Kiev, Gos.
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 307 p.
(Gas and oil engines) (MIRA 10:1)

Serduk, V.K.
FYCHIS, Andrey Petrovich; SERDYUK, V.K., inzhener, redaktor; LAVORKO, P.K.,
inzhener, retsenzent; LYKHOTA, M.A. tekhnicheskii redaktor.

[Safety manual for workers in painting shops] Pamiatka po tekhnike
bezopasnosti dlia rabochikh okrasochnykh tsekhov. Kiev, Gos.nauchno-
tekhn.izd-vo mashinostroit.lit-ry, 1957. 72 p. (MLRA 10:6)
(Painting, Industrial--Safety measures)

Soviet Union
PETROSYAN, Petr Pavlovich; PERMYAKOV, V.G., kandidat tekhnicheskikh nauk,
retsenzent; SERDYUK, V.K., inzhener, redaktor;

[Heat treatment of steel by chilling] Termicheskaya obrabotka stali
kholodom; teoriya i praktika. Kiev, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1957. 121 p. (MLRA 10:5)
(Steel--Heat treatment) (Metals at low temperature)

PATON, B.Ye., doktor tekhnicheskikh nauk, redaktor; TROCHUN, I.P.,
kandidat tekhnicheskikh nauk, retsenzent; ~~SERDYUK, V.K.,~~ inzhener,
redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskij redaktor

[Manual for electric arc welding under flux] Rukovodstvo po
elektrodugovoi svarko pod fliusom. Pod red. B.E.Patona. Kiev,
Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 235 p.
(MLRA 10:6)

1. Akademiya nauk URSR, Kiyev. Institut elektrosvar'yuvannya.
2. Chlen-korrespondent Akademii nauk USSR (for Paton)
(Electric welding)

SERDYUK, V.K.
KOZLOV, Ivan Stepanovich; SOLOGUB, Nikolay Avramovich; KOMAROV, M.S.,
doktor tekhnicheskikh nauk, retsenzent; DUMPE, V.E., kandidat
tekhnicheskikh nauk, retsenzent; SERDYUK, V.K., redaktor;
RUDENSKIY, Ya.V., tekhnicheskii redaktor

[Machine-shop practice] Praktika slesarnogo dela. Kiev, Gos.
nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 235 p.
(Machine-shop practice) (MLRA 10:9)

52 60 115 1 1
VASHCHENKO, Konstantin Il'ich; SOFRONI, Laurentsio; IVANOV, D.P., kandidat
tekhnicheskikh nauk, retsenzents; SERDYUK, V.K., inzhener, redaktor
izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskii redaktor

[Magnesium cast iron] Magnievyi chugun. Kiev, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1957. 421 p. (MLRA 10:5)
(Cast iron)

DMITRIYEV, Anatoliy Vasil'yevich; SHPARAGA, I.I., inzh., retsenzent;
SERDYUK, V.K., inzh., red.

[Safety rules for operators of sand preparation machinery
casting shops] Pamiatka po tekhnike bezopasnosti dlia
rabochikh zemleprigotovitel'nykh mashin liteinykh tsekhov.
Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958.
57 p. (MIRA 12:4)
(Founding--Safety measures) (Sand, Foundry)

VASHCHENKO, K.I., otv.red.; ARTAMONOV, A.Ya.,red.; ZASLAVSKIY, S.Sh.,red.;
POLYAK, B.V., red.; SEHDYUK, V.K., inzh., red.; RUDENSKIY, Ya.V.,
tekhn.red.

[Progressive founding technology] Peredovaia tekhnologiya
liteinogo proizvodstva. Kiev, Gos. nauchno-tekhn.izd-vo
mashinostroil lit-ry, 1958. 152 p. (MIRA 12:1)

1. Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy
promyshlennosti.

(Founding)

REBROV, Sergey Alekseyevich,; BORODAVKA, A.S., inzh., retsenzent,; DENISENKO,
L.P., inzh., retsenzent,; OL'SHANSKIY, M.A., inzh., retsenzent,;
SHPOLYANSKIY, M.N., inzh., retsenzent,; ALEKTOROV, V.A., kand. tekhn.
nauk, red.; SERDYUK, V.K., inzh., red.

[Trolley buses] Trolleibusy, Kiev, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1958. 278 p. (MIRA 11:11)
(Trolley buses)

RABKIN, Daniil Markovich; GUREVICH, Samuil Markovich; BUGRIY, Filipp
Semenovich; PATON, B.Ye., otv.red.; ASHIS, kand.tekhn.nauk,
red.vypuska; KAZIMIROV, A.A., red.; MEDOVAR, B.I., red.;
PODGAYETSKIY, V.V., red.; SERDYUK, V.K., inzh., red.

[Nonferrous metal welding] Svarka tsvetnykh metallov. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 69 p.
(MIRA 12:7)

(Nonferrous metals--Welding)

KAMENETSKIY, Aleksey Vasil'yevich; SHVETSOV, P.D., prof., retsenzent;
SERDYUK, V.K., inzh., red.

[Operation and repair of reciprocating valve steam engines]
Ekspluatatsiia i remont klapannykh parovykh mashin, rabo-
taiushchikh na protivodavlenie. Kiev, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1959. 108 p. (MIRA 12:7)
(Steam engines--Maintenance and repair)

KIRIYENKO, Yevgeniy Grigor'yevich; LUTSYK, Vladimir Iosifovich; PISKORSKIY,
Georgiy Avgustinovich; LEVITSKIY, M.Ya., kand.tekhn.nauk, retsenzent;
SIVAY, A.V., dotsent, red.; SERDYUK, V.K., inzh., red.

[Cold stamping] Kholodnaia shtampovka. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostr.lit-ry, 1959. 165 p. (MIRA 12:10)
(Sheet-metal work) (Drawing (Metalwork))

KAMENICHNYY, Iosif Solomonovich. Primal uchastiye: SKRYPNICHENKO,
D.P., kand.tekhn.nauk. PERMYAKOV, V.G., kand.tekhn.nauk,
retsensent; SERDYUK, V.K., inzh., red.

[Practices in the heat treatment of tools] Praktika termi-
cheskoi obrabotki instrumenta. Izd.2., ispr. i dop. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 223 p.
(MIRA 12:8)

(Tool steel--Heat treatment)

ROZOV, Serafim Vasil'yevich, dotsent, kand.tekhn.nauk; VASSERMAN, Ya.Ye.,
inzh., retsenzent; KISLOV, I.A., inzh., retsenzent; LOPATA,
A.Ya., kand.tekhn.nauk, red.; SERDYUK, V.K., red.

[Teaching mechanical drawing in technical schools; a brief
manual for teachers] Prepodavanie cherchenia v tekhnikumakh;
kratkoe rukovodstvo dlia prepodavatelei. Moskva, Gos.nauchno-
tekhn.izd-vo mashinostroit.lit-ry, 1959. 245 p. (MIRA 13:1)
(Mechanical drawing--Study and teaching)

ROZOV, Serafim Vasil'yevich, dotsent, kand.tekhn.nauk; SERDYUK, V.K.,
inzh.; red.

[Exercises in mechanical drawing] Sbornik zadaniy po chercheniu.
Izd.3., dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 298 p. (MIRA 13:12)
(Mechanical drawing)

KLEBANOV, Boris Vladimirovich, inzh.; KUZ'MIN, Vladimir Grigor'yevich, inzh.; OREKHOV, Pavel Aleksandrovich, inzh.; PROSHIN, Georgiy Aleksandrovich, kand. tekhn. nauk; LEONOV, I.S., inzh. retsenzent; SOROKIN, A.A., inzh. retsenzent; SERDYUK, V.K., inzh., glav. red. MAYEVSKIY, V.V., inzh. red.; GORNOSTAYPOL'SKAYA, S.M., tekhn. red.

[Repairing motor vehicles and tractors] Remont avtomobilei i traktorov. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroi. lit-ry. Pt. 1. 1961. 335 p.

(MIRA 14:5)

(Motor vehicles—Maintenance and repair) (Tractors—
Maintenance and repair)

YEGOROVA, Valentina Ivanovna; USHAKOVA, T.V., red.; SERDYUK, V.N.,
otv.red.; HRAYNINA, M.I., tekhn.red.; VLADIMIROV, O.G.,
tekhn.red.

[Method for the preparation of ten-day weather forecasts]
Metod kompleksoyogo prognoza pogody na 10-dnevnyye periody.
Leningrad, Gidrometeor.izd-vo, 1960. 78 p. (MIRA 14:2)

(Russia, Northern--Meteorology, Maritime)

SERDYUK, V. P.

SERDYUK, V. P.: "Investigation of a crane bank brake with double drive". Khar'kov, 1955. Min Higher Education USSR. Dnepropetrovsk Order of Labor Red Banner Metallurgical Inst imeni I. V. Stalin. (Dissertations for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

SERDYUK, V.P., kand.tekhn.nauk

Vibrations of the brake belting tension during the operations of
the belt brake. Izv.vys.ucheb.zav.; tekhn.prom. no.3:142-146
'60. (MIRA 13:8)

1. Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti.
Rekomendovana kafedroy detaley mashin. (Brakes--Vibration)
(Shoe machinery)

SERDYUK, V.P., kand.tekhn.nauk

Determining the rated braking moment for displacement mechanisms
of hoisting machines. Izv.vys.ucheb.zav.; tekhn.prom. no.4:
142-148 '60. (MIRA 13:10)

1. Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti.
Rekomendovana kafedroy detaley mashin.
(Hoisting machinery)

SERDYUK, V.P., kand.tekhn.nauk; BOROVSKIY, B.N., inzh.

Experimental study of the changes in the transmission ratio of
the chain speed variator. Report No.1: Experimental unit.
Izv.vys.ucheb.zav.; tekhn.prom. no.6:126-130 '61. (MIRA 14:12)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy detaley mashin.
(Gearing)

SERDYUK, V.P., kand. tekhn. nauk, dotsent; BOROVSKIY, B.N., inzh.

Investigating the losses in the chain speed variator. Izv. vys.
ucheb. zav.; tekhn. leg. prom. no.3:143-151 '63.

(MIRA 16:7)

1. Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti.
Rekomendovana kafedroy detaley mashin.
(Gearing)

BOROVSKIY, B.N., inzh.; SERDYUK, V.P., kand. tekhn. nauk, dotsent

Theory of the losses in a chain speed variator. Izv. vys.
ucheb. zav.; tekhn. leg. prom. no.5:106-115 '63. (MIRA 16:12)

1. Kiyevskiy tekhnologicheskii institut legkoy promyshlennosti.
Rekomendovana kafedroy detaley mashin.

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9.4177 (incl. 3005; also 1138, 1147)
26.2421

S/139/61/000/002/015/018
E032/E414

AUTHORS: Serdyuk, V.V. and Sera, T.Ya.

TITLE: Optical Absorption of Some Metal Impurities in the
Crystal Lattice of Cadmium Sulphide

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,
1961, No.2, pp.132-137

TEXT: Changes in the absorption spectrum of cadmium sulphide films which are due to heat treatment and the introduction of some metal impurities have been investigated. Yellow non-luminescing cadmium sulphide powder obtained by chemical methods was evaporated in a vacuum on to quartz plates. The films obtained in this way had a thickness of the order 5×10^{-4} mm which ensured that they were sufficiently transparent in the region 400 to 700 mμ. The absorption spectra were measured with the CΦ-4 (SF-4) quartz spectrophotometer. A thinner layer of cadmium sulphide was used as the standard specimen. In this way possible errors due to unequal reflection of light from the semiconducting film and from quartz were excluded. Changes in the absorption spectra of cadmium sulphide were determined after it was heated in a vacuum for 20 minutes at 300°C. In addition, the effect of cadmium, Card 1/6

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Optical Absorption of ...

silver and copper impurities on the absorption spectra was investigated. The metal impurities were introduced by vacuum evaporation and subsequent heating at 300 to 400°C. This operation facilitated the diffusion of the metal into the semiconducting material. The standard specimen was subjected to the same thermal treatment as the specimen under investigation after the introduction of the impurity. This ensured that only effects due to the introduction of the metal impurity were observed, while other possible effects due to heating were excluded. The absorption spectrum of cadmium sulphide measured relative to the thin standard before (curve 1) and after (curve 2) heating is shown in Fig.1. As can be seen, the heating of the specimen in a vacuum for 20 minutes at 300°C gives rise to the appearance of a new band with a maximum at 490 mμ. This band also appears if the heating is carried out in air. It is suggested that the new band is associated with the appearance of surplus cadmium atoms in the cadmium sulphur lattice. This is confirmed by the fact that the band does not appear when the specimen is heated in a sulphur atmosphere. Fig.2 shows the absorption of cadmium sulphide after

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the introduction of the following metal impurities: Cd (curve 1), Ag (curve 2) and Cu (curve 3). As was to be expected, the introduction of cadmium gives rise to the appearance of a band in the same region as in the case of heating. However, the two methods of introducing cadmium atoms into the lattice are not entirely equivalent since the position of the band in the second case is 515 mμ as compared with 490 mμ in the previous case. The addition of silver gives rise to an absorption band with a maximum at 550 mμ while the band associated with the copper impurity has a maximum at 600 mμ. In these experiments the average impurity concentration was of the order of 10^{-3} g/g. Fig.3 shows the dependence of the absorption band due to silver on the impurity concentration (curve 1 - 10^{-4} g/g, curve 2 - 10^{-3} g/g, curve 3 - 10^{-2} g/g). A slight displacement of the maximum towards longer wavelengths is observed at the higher concentrations. Fig.4 shows the effect of cobalt (curve 1), nickel (curve 2) and iron (curve 3) on the absorption spectrum. Definite absorption minima are clearly present in these curves. The optical absorption effects are closely related to photoconductivity and

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luminescence effects. Thus, for example, the absorption bands associated with the introduction of copper and silver into the cadmium sulphide lattice coincide in position with the corresponding photo-conductivity maxima. This indicates that the impurity centres are responsible both for absorption and photo-conductivity. On the other hand, the introduction of cobalt, nickel and iron does not give rise to selective absorption but, on the contrary, leads to the appearance of characteristic absorption minima. This is in agreement with the quenching action of these impurities on the photoconductivity of cadmium sulphide. The entire situation can be represented by the energy level diagram shown in Fig.5 which is used to interpret the photoconductivity and luminescence effects in activated cadmium sulphide crystals. There are 5 figures and 11 references: 7 Soviet and 4 non-Soviet. X

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38157

S. 658/62/000/004/045/160
A058/A101

26.2421
9.4177

AUTHORS: Sëra, T. Ya., Serdyuk, V. V.

TITLE: Effect of preheating and extra irradiation on the absorption spectra of cadmium sulfide and cadmium selenide

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 33, abstract 4V242
("Nauchn. yezhegodnik Odessk. un-t. Fiz.-matem. fak. 1 N.-1. in-t fiz." no. 2, Odessa, 1961, 187-190)

TEXT: The change in the absorption spectra of polycrystalline CdS and CdSe films under the action of heat treatment and short-wave irradiation was investigated. Thin films of CdS and CdSe of different thicknesses (from 10^{-5} to 10^{-3} mm) were used, which were applied by thermal evaporation in a vacuum onto quartz and glass backings. Heat treatment of the films was effected by preheating them in a vacuum at 300°C for 10 - 30 minutes. After such treatment of the CdS film its spectrum evinces an extra wide band with a maximum at 4,800 - 4,900 Å, which is associated with an excess of Cd atoms in the crystal lattice. A similar effect is also observed in CdSe, in which a band appears at 6,900 Å. Short-wave light with a wavelength in the range from 3,500 to 6,000 Å causes "excitation" of

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Effect of preheating and extra irradiation ...

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both CdS and CdSe thin films, which is manifested in the appearance of extra absorption bands in the red and infrared regions of the spectrum: CdS has conspicuous bands at 6,700, 8,300 and 12,000 - 13,000 Å, and CdSe has bands at 8,000, 12,000 and 15,000 Å.

E. Nagayev

[Abstracter's note: Complete translation]

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22057

S/181/61/003/004/023/030
B102/B209

9.4/77 (1051,1482)

AUTHOR: Serdyuk, V. V.

TITLE: Infrared quenching of photoconductivity in CdS single crystals

PERIODICAL: Fizika tverdogo tela, v. 3, no. 4, 1961, 1229-1231

TEXT: CdS crystals which are frequently used in photoelectric cells, photoresistors, gamma counters, and other devices show a peculiar sensitivity to infrared radiation; CdS has its highest sensitivity in the range of 480-540 mμ, and light of $\lambda > 800$ mμ causes practically no photoeffect. When CdS is illuminated by light that releases a photocurrent, an additional infrared irradiation will lead to a reduction (quenching) of this effect. The author reports on studies concerning this quenching in CdS single crystals which were grown from the gaseous phase and were placed at his disposal by the Institut fiziki AN USSR (Institute of Physics, AS UkrSSR). Aqua-dag was used for the electrodes. The contacts were ohmic, and the field strengths applied were between 500 and 1000 v/cm. An intense incandescent lamp equipped with a mirror monochromator with a glass prism served as light

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B102/B209

Infrared quenching ...

source for the range 0.4-2.0 μ . All the measurements were performed at room temperature. First, the spectral positions of the principal bands of photoconductivity in CdS were studied. The author found that, besides in the range of 490-540 $m\mu$, photosensitivity appears in the range about 700 $m\mu$, too. Fig. 1 shows the spectral distribution of the photosensitivity of an untreated crystal (a), of a crystal heated in vacuo at 300°C for 10 min (b), and of a crystal heated for 20 min under the same conditions (c). The principal band of CdS photoconductivity is asymmetric about its maximum. However, a considerable infrared quenching of the photocurrent is observed only in such crystals whose spectral photoconduction distribution shows a sharp decrease on the long-wave side. Fig. 2 illustrates the infrared quenching of the photocurrent in a CdS single crystal at $\lambda_{exc} = 520 m\mu$ (a), $\lambda_{exc} = 700 m\mu$ (b), and the photoconduction spectrum (c). The photocurrent is an electron current, i.e., right after the absorption of a quantum in the crystal and the formation of an electron-hole pair, the hole is trapped and only the electron plays an active part in the conduction mechanism. Infrared light liberates the hole, recombination is accelerated, and the photocurrent decreases. The positions of the maxima of infrared quenching

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22057

Infrared quenching ...

S/181/61/003/004/023/030
B102/B209

in CdS (1.3 and 0.9 ev) permits to draw conclusions as to the distance of the hole traps from the upper edge of the valency band. The author thanks Docent T. Ya. Sër for supervision and discussion of this study. A. D. Shneyder is mentioned. There are 2 figures and 8 references: 3 Soviet-bloc and 5 non-Soviet-bloc. The two most recent references to English-language publications read as follows: R. H. Bube, Proc. IRE, 43 (12), 1836, 1955; D. C. Reynolds et al. JOSA, 45, 2, 136, 1955.

ASSOCIATION: Odesskiy Gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

SUBMITTED: September 15, 1960 (initially) and November 23, 1960 (after revision)

X

Card 3/5

SERDYUK, V.V.; SERA, T.Ya.

Some problems of the photoconductivity of polycrystalline samples
of cadmium selenide. Fiz.tver.tela 3 no.7:2166-2169 J1 '61.
(MIRA 14:8)

1. Odesskiy gosudarstvennyy universitet imeni I.I.Mechnikova.
(Photoconductivity) (Cadmium selenide crystals)

30801

S/181/61/003/011/048/056
B104/B138

9.4177 (1035,1051)
26.2421

AUTHORS: Sëra, T. Ya., Serdyuk, V. V., and Shevchenko, I. M.

TITLE: The effect of γ -irradiation on spectral distribution of photo-sensitivity in CdS single crystals

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3537-3539

TEXT: The experiments were carried out on single crystals of CdS with a photo-sensitivity spectrum with two maxima (Fig.). The crystals were exposed to a cobalt 60 milliroentgens radiation. Photoconductivity decreased and the maxima vanished, but in most cases a very low level of sensitivity remained through the visible range of the spectrum (Fig., curves 2 and 3). The variations in photo-sensitivity in CdS single crystals due to γ -irradiation were stable. In essence, the interaction of a γ -radiation with the atoms of single crystals is a Compton effect which means there is bombardment of the substance with electrons, and multiple ionization of the atoms. First the sulfur atoms are ionized until they become positively charged and are displaced to interstitial sites under the action of the field of surrounding ions. A considerable number of

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30801

S/181/61/003/011/048/056

B104/B138

The effect of γ -irradiation ...

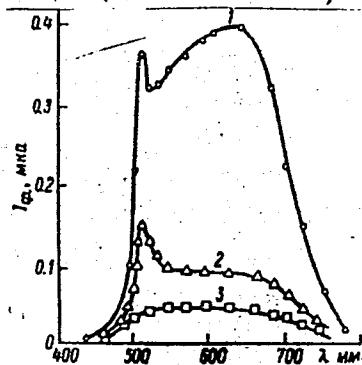
negative ion vacancies are thereby created, and impurity levels are formed in the forbidden band of the crystal, which play the role of recombination levels for photo-electrons. There are 1 figure and 7 references: 3 Soviet and 4 non-Soviet.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

SUBMITTED: May 15, 1961 (initially) July 14, 1961 (after revision)

Fig. The spectral distribution of the photo-current of a CdS single crystal.

Legend: (1) before irradiation;
(2) after a 24-hour irradiation;
(3) after a 48-hour irradiation.



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9.4174
26.2420
26.2532

36884
S/181/62/004/004/030/042
B102/B104

AUTHORS: Serdyuk, V. V., and Sera, T. Ya.

TITLE: The long-wave photo-sensitivity and the infrared photo-current extinction in cadmium sulfide single crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 4, 1962, 1032-1037

TEXT: The paper gives additional information (cf. FTT, 3, 1229, 1961; FTT, 3, 1152, 1961) on the long-wave band of photosensitivity of heat-treated CdS single crystals; the photoconductivity in the 520 mμ band is compared with that in the 650 mμ band which arises in heat treatment. The CdS crystals studied were grown by CdS powder sublimation in nitrogen current. The initial samples had a photocurrent maximum at $\lambda = 510-520$ mμ, a weak band at 600-620 mμ, and a dark conductivity of about 10^{10} ohm·cm, which was reduced by heat treatment (500°C, 15-20 min), by 2-3 orders of magnitude. The spectrum of the annealed crystals showed a band with $\lambda_{\text{max}} = 650-700$ mμ whose intensity increased with the annealing period. The heating, which was carried out with focused solar light, did

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The long-wave photo-sensitivity...

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B102/B104

not only cause this long-wave band but also raised the total photo-sensitivity of the crystals. In some cases, the intensity of the band with $\lambda_{\max} = 520 \text{ m}\mu$ was after heating higher than before by more than one order of magnitude. This fact is attributed to the hole traps arising in the forbidden band. The spectral distribution of the photocurrent is not only red-shifted but also broadened and distorted when the CdS crystal is ground and pressed (5 tons/cm²) to tablets. These changes are due to the effect of the highly increased defect concentration. If the crystals were heated and subsequently cooled, the photocurrent peak was split into two components. The relaxation time (τ^0) of the photocurrent increased with λ . The coefficient Q of infrared extinction was determined as dependent on the wavelength of exciting light in the range 500-800 m μ . The curves $\tau^0(\lambda)$ and $Q(\lambda)$ are similar in shape: They both show a minor maximum between 500 and 600 m μ , and then rise monotonically. If $I_{\text{phot}} \sim E^\alpha$, then the "quenching" illumination raises α ; E is the illumination intensity. With $\lambda_{\text{exc}} = 520 \text{ m}\mu$ and $\lambda_{\text{quench}} = 820 \text{ m}\mu$, the lux-ampere characteristics were studied. While $\log I_{\text{ph}} = f(\log E_{\text{exc}})$ is

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The long-wave photo-sensitivity...

S/181/62/004/004/030/042
B102/B104

a straight line without infrared illumination, the latter causes a distinct sublinearity. This is explained by a shift of the "quenching" wavelength toward shorter waves when E_{exc} is raised. This effect is considered as a shift of the boundary between "stimulation" and "quenching". There are 6 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov)

SUBMITTED: October 3, 1961 (initially)
December 28, 1961 (after revision)

Card 3/3

SERDYUK, V.V.

Infrared damping and the photoactivation of the photoconductivity of cadmium selenide single crystals. Izv.vys.uch.zav.; fiz. no.4:140-145 '62. (MIRA 15:9)

1. Odesskiy gosudarstvennyy universitet imeni I. I. Mechnikova.
(Cadmium selenide crystals) (Photoconductivity)
(Infrared rays)

44137

9.4160 24,3500
26.2420

S/181/62/004/010/024/064
B108/B104

AUTHOR: Serdjuk, V. V.

TITLE: The long-wave photosensitivity and the infrared luminescence of cadmium sulfide single crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2802 - 2805

TEXT: The long-wave sensibilization of CdS crystals through heat treatment is accompanied by an infrared luminescence. The peculiar negative and positive flashes of photocurrent that appear when the wavelength of the exciting light is slightly varied around $520 \text{ m}\mu$ or near the long-wave maxima of 580 and $670 \text{ m}\mu$ indicate that heat treatment produces a system of levels of thermal defects in the forbidden band of the CdS crystal. Any change in wavelength redistributes electrons between the conduction band and the local levels. Measurements with an $\Phi\text{CC-Y-10}$ (FESS-U-10) sulfur-silver photoelement and an $\Phi\text{OY-18}$ (FEOU-18) photoelectrooptical amplifier showed a luminescence maximum at 1.1μ . Another maximum at 0.85μ (B. A. Kulp. T. Appl. Phys., 32, 10, 1966, 1961) was filtered out. The excitation spectra of the photocurrent and of the infrared luminescence of CdS showed

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The long-wave...

S/181/62/004/010/024/064
B108/B104

a similar dependence on the wavelength of the exciting light. This result indicates that the same centers produced by heat treatment are responsible for the long-wave photocurrent and luminescence. They may be due to indium impurities in the CdS lattice. There are 5 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet im. I. I. Mechnikova
(Odessa State University imeni I. I. Mechnikov) ✓

SUBMITTED: May 23, 1962

Card 2/2

9.4179
26.2420

37187
S/185/62/007/004/011/018
D407/D301

AUTHOR: Serdyuk, V. V.
TITLE: Photovoltaic effect in polycrystalline layers
of cadmium selenide
PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 4,
1962, 403-408

TEXT: The photovoltaic effect in thin CdSe-layers was studied. This is important in view of the many applications of CdSe. The specimens were prepared by evaporation in a vacuum of 10^{-4} mm Hg. After preparation, the specimens were kept in an air atmosphere so as to ascertain the effect of the air on their optical properties (on their absorption spectrum in particular). By heating (for 5 - 10 minutes at $650 - 700^{\circ}\text{C}$) the specimen becomes photosensitive; thereby its resistivity decreases to $10^7 - 10^8$ ohm. cm, and the layers achieve the property of chang-

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S/185/62/007/004/011/018
D407/D301

Photovoltaic effect in...

ing their resistivity by 2 - 3 orders of magnitude on illumination. If the duration of the heat treatment is prolonged for 15 - 20 minutes, the resistivity decreases to $10^5 - 10^8$ ohm·cm; the photosensitivity also decreases. The appearance of the photovoltage, as a result of illumination of the thin layers, is entirely due to the polycrystalline state of the semiconductor. The author obtained a high photovoltage (up to 0.3 volt/cm) on layers which underwent heat treatment for 15 - 20 minutes, at $650 - 700^\circ\text{C}$, in an air atmosphere. After the heat treatment, contacts were applied (on one side) to the film (at intervals of 10 mm). The observed changes in the properties of the film can be explained by the interaction of atmospheric oxygen with the polycrystalline layers. The author conducted numerous experiments with white light. It was noted that the photovoltage reached its maximum value immediately after the illumination was started; then, the photovoltage decreased gradually and reached a constant value (of about half the initial

Card 2/4

S/185/62/007/004/011/018
D407/D301

Photovoltaic effect in...

value). The following relationships are shown in figures: the dependence of the photovoltage on time of illumination, the probe characteristic of the photovoltage, the dependence of the photovoltage on the intensity of the exciting light, and the spectral distribution of the photoeffect. The probe characteristic was measured by means of a light probe whose thickness did not exceed 0.5 mm. It was noted that the photovoltage becomes zero when the central part of the specimen was illuminated. The photovoltage varies sharply if the light probe does not illuminate the contacts. The author assumes that the photovoltage, appearing as a result of the illumination of polycrystalline layers, is due to 2 processes: the first process is related to the presence of a contact between the semiconductor and conductor (aquadag); the second process is related to inhomogeneous electrical properties of the specimen. The spectral distribution curves exhibit a sharp drop, beginning from 700 mμ. It is noted that the photovoltage of the specimens does not change sharply towards the short-wave side (unlike the photo-

X

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Photovoltaic effect in...

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D407/D301

current). The photovoltaic effect in CdSe polycrystalline layers shows the feasibility of using CdSe as a photovoltaic element. The heat treatment in an air atmosphere is of particular importance; apparently, the heat treatment leads to the formation of surface p-n junctions in which the photovoltaic processes take place. There are 5 figures and 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: B. Goldstein, L. Pensak, J. Appl. Phys., 30, 2, 155, 1959; E. Schwarz, Proc. Phys. Soc., B63, 368, 1950; B64, 381, 1951.

ASSOCIATION: Odes'kyi derzhuniversytet im. I. I. Mechnykova
(Odessa State University im. I. I. Mechnykov)

SUBMITTED: December 12, 1961

Card 4/4

X

ZUBRITSKIY, V.G.; SERDYUK, V.V.

Short-wave quenching of the photoconductivity of cadmium sulfide.
Fiz. tver. tela 6 no.3:942-943 Mr '64. (MIRA 17:4)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

L 46934-66 FWT(m)/EWT(1)/T/EWP(t)/ETI IJP(c) JD/GG

ACC NR: AP6015496

(N)

SOURCE CODE: UR/0181/66/008/005/1623/1625

AUTHOR: Ptashchenko, A. A.; Serdyuk, V. V.; Kuz'menko, I. A.

ORG: Odessa State University im. I. I. Mechnikov (Odesskiy gosudarstvennyy universitet)

TITLE: Infrared quenching of extrinsic photoconductivity in CdS

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1623-1625

TOPIC TAGS: cadmium sulfide, photoconductivity, IR photoconductor, capture cross section, impurity center

ABSTRACT: The kinetics of infrared (IR) quenching of the extrinsic photoconductivity from the $\lambda=600-900$ nm range were investigated by analyzing the relationships between the photocurrent and the light intensity at different short IR exposures. The obtained characteristics indicate that the families of the lux-ampere relationships at various IR exposures for intrinsic and extrinsic photocurrents coincide precisely, until there is a shift along the axis of intensities. This shift is caused by the difference between the CdS absorption coefficients in these two bands of the spectrum. The coincidence indicates that electron concentrations in the conductivity zone and in the r-centers and in the s-centers are not affected by the mode of the generation of the photocurrent, i. e., whether or not the photocurrent is generated by light which results in band-band electron transitions, or whether the transitions take place from impurity

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L 46934-66

ACC NR: AP6015496

centers. This can happen only if the transitions take place from the r -centers. The photon-capture cross section β_r was measured for the electron transition from an impurity center to the conductivity band using two different methods, i. e., with and without a consideration of the identities of the r -centers and of the centers of extrinsic photosensitivity. Since similar values of β were obtained, it follows that in CdS the centers of extrinsic photoconductivity coincide with the r -centers. The authors thank V. E. Lashkarev for direction of this project. Orig. art. has: 2 figures, 3 formulas.

SUB CODE: 20/

SUBM DATE: 12Jul65/

ORIG REF: 006/

OTH REF: 001

awm

Card 2/2

LYASHCHINSKIY, B.I.; PONOMARENKO, Ye.P.; GELSELEV, A.M.; SERDYUK, V.Ye.

Improved magnetic starters. Energ. i elektrotekh. prom.
no.3:68-69 J1-3 '62. (MIRA 18:11)

1. Zaporozhskiy mashinostroitel'nyy institut imeni Chubarya (for
lyashchinskiy, Ponomarenko). 2. Zaporozhskiy sovet narodnogo
khozyaystva (for Gelselev). 3. Dneprovskiy mekhanicheskiy zavod
(for Serdyuk).

NOVICHKOV, S. [Novychkov, S.]; BUTOVICH, O. [Butovych, O.]; SERDYUK, Ya.
[Serdiuk, IA.]

Efficiency experts suggest. Sil'.bud. 13 no.10:17-18 0 '63.

(MIRA 17:3)

1. Glavnyy inzh. Nikolayevskoy oblastnoy mezhkolkhoznoy stroitel'-noy organizatsii (for Novichkov).
2. Starshiy inzh. Nikolayevskoy oblastnoy mezhkolkhoznoy stroitel'noy organizatsii (for Butovich).
3. Glavnyy mekhanik Nikolayevskoy oblastnoy mezhkolkhoznoy stroitel'noy organizatsii (for Serdyuk).

SERDYUK, Ya.Ya.

Method for conducting river heat profiling in prospecting
for underground waters. Razved. i okh. nedr 29 no.6:50-53
Je '63. (MIRA 18:11)

1. Ural'skaya gidrogeologicheskaya ekspeditsiya.

CHITEN, No. 11.

"The Specific and Nonspecific Activity of Vitamin B₁ (Thiamin). (Experimental Research)." Cand Med Sci, L'viv State Medical Inst, L'viv, 1953. Dissertation (Referativnyi Zhurnal--Zhurnal, Moscow, No 2, Jan 54)

SC: CUI 136, 19 Aug 1954

SERDYUK, E.N.

The influence of thiamine on the motor and interoceptive function of the
stomach. Voprosy Pitaniya 12, No.2, 16-20 '53. (MLRA 6:4)
(CA 47 no.22:12546 '53)

1. Lvov State Med. Inst.

PETROVSKIY, Yu.A.; SERDYUK, Ye.N.; SKAKUN, N.P.; TURKO, I.P.

Liver function in experimental vitamin B₁ deficiency. Vopr.
fiziol. no.8:123-127 '54. (MIRA 14:1)

1. L'vovskiy meditsinskiy institut.
(VITAMIN B₁ DEFICIENCY, experimental,
liver funct. tests)
(LIVER FUNCTION TESTS, in various diseases,
exper. vitamin B₁ defic.)

SERDYUK, Ye. N.

PETROVSKIY, Yu. A.; MAKSIMOVICH, Ya. B. SERDYUK, Ye. N.

Interoception of the liver and bile ducts. Part 3. Physiological and pharmacological analysis of interoceptive reflexes from the liver and from the gallbladder. Biul. eksp. biol. i med. 38 no.7:3-7 J1 '54.

1. Iz kafedry farmakologii (zav. prof. Yu. A. Petrovskiy) L'vovskogo meditsinskogo instituta (dir. prof. L. N. Kuzmenko)

(GALL BLADDER, physiology,

interoceptive conditioned reflexes in dogs)

(LIVER, physiology

interoceptive conditioned reflexes in dogs)

(REFLEX, CONDITIONED,

interoceptive reflexes of liver & gallbladder in dogs)

SERDYUK, Ye.N.

Modifications in cardiac reaction to strophanthin in experimental
vitamin B₁ deficiency. Biul.eksp.biol. i med. 42 no.11:42-44 N '56.
(MLRA 10:1)

1. Iz kafedry farmakologii (zav. - prof. Yu.A.Petrovskiy) L'vovskogo
meditsinskogo instituta (dir. - prof. L.N.Kuzmenko) Predstavleno
deystvitel'nym chlenom AMN SSSR S.V.Anichkovym.

(VITAMIN B₁ DEFICIENCY, experimental,
eff. of strophanthin on ECG (Rus))

(STROPHANTHIN, effects,
on ECG in exper. vitamin B₁ defic. (Rus))

(ELECTROCARDIOGRAPHY, in various diseases,
exper. vitamin B₁ defic., eff. of strophanthin (Rus))

LYASHCHINSKIY, B.I.; PONOMARENKO, Ye.P.; SERDYUK, V.Ye.; NAGORNYY, M.A.;
SAVCHENKO, I.P.

Automation of technological processes in the production of electrodes.
(MIRA 17:10)
Mashinostroitel' no.8:10-11 Ag '64.

USSR/Medicine - Biochemistry, Ascorbic Acid

Jul 53

SERDYUK, YE.

"Ascorbic Acid Content in the Cerebrum during Various Functional Conditions of the Central Nervous System," E. E. Serdyuk, Dept of Biochemistry, ~~of the~~ Stalin Med Inst

Ukrain Biokhim Zhur, Vol 25, No 3, pp 271-277

Ascorbic acid content in the brain depends upon the functional state of the central nervous system. ^{Expts} ~~Experiments~~ conducted on rabbits and white mice proved that no matter what method is used to stimulate the central nervous system, the ^{concn} ~~concentration~~ of ascorbic acid in the large hemispheres of the cerebrum increases. The greatest ^{concn} ~~concentration~~ of ascorbic acid within the cerebrum has been observed in mice as a result of the conditioned-reflex method of stimulation. Development of a protective conditioned motor reflex contributes to the rise of the level of ascorbic acid in the cerebrum under all conditions, but this level is exceptionally high when the reflex has been released by the appropriate stimulus.

261759

MAKHIN'KO, V.I.; SERDYUK, Ye.Ye.

Materials on the embryonic physiology of domestic fowl. Report No.1:
Correlation of growth rate and respiration intensity in duck embryos
during incubation. Uch.zap. KHGU 53:153-170 '54. (MIRA 11:11)

1. Kafedra fiziologii cheloveka i zivotnykh Khar'kovskogo gosudar-
stvennogo universiteta imeni A.M. Gor'kogo.
(EMBRYOLOGY--BIRDS) (RESPIRATION) (DUCKS)

SERDYUK, Ye.Z.

Preparation of ammonium carbonate at the Pronsk Alcohol Plant.
Spir. prom. 27 no.6:32-33 '61. (MIRA 14:9)
(Pronsk--Ammonium carbonate)

SERDYUK, L.V.; TROKHIMENKO, Ya.E.

Silicon p-n-p-n-type controlled rectifiers. Izv. vyz. ucheb. zav.;
radiotekh. 8 no.2:151-164 Mr-Apr '65.

(NERA 18:7)

~~SERDYUK~~, Z.Ya.; KORSACK, O.G.

New data on the geology of the Ters' region in the Kuznetsk
Basin. Trudy Lab.geol.ugl. no.6:546-550 '56. (MLBA 10:2)

1. Zapadno-Sibirskoye geologicheskoye upravleniye.
(Kuznetsk Basin--Coal geology)

KAZANSKIY, Yu.P., stv. red.; AKUL'SHINA, Ye.P., red.; PERCZIO,
G.N., red.; SERDYUK, Z.Ya., red.

[Clays and clay minerals of Siberia] Gliny i glinistye mi-
neraly Sibiri. Moskva, Nauka, 1965. 131 p.
(MIRA 18:5)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut
geologii i geofiziki.

SERDYUKOV, A.

Small chamber for the processing of waterfowl. Mias. ind. SSSR
26 no.3:57-58 '55. (MIRA 8:9)

1. Usmanskiy ptitsekombinat
(Lipetsk Province--Poultry plants)

~~СЕРДУКОВ, А.~~
SERDYUKOV, A.

Improving the operation of the hide scraping machine. Mias. ind.
SSSR 28 no.5:58 '57. (MIRA 11:1)

1. Kislovodskiy myasokombinat.
(Meat industry--Equipment and supplies)

SERDYUKOV, A. A.

SERDYUKOV, A. A. "The dynamics of rigor mortis in certain types of death"
(Experimental Investigation). Leningrad, 1955. Leningrad State Order
of Lenin Inst for the Advanced Training of Physicians imeni S. M. Kirov.
(Dissertation for the degree of Candidate of Medical Sciences).

S0: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow

POZDNYAKOV, B.V., kand.tekhn.nauk; NELYUBOV, Yu.V., gornyy inzh.; SERDYUKOV,
A.K., gornyy inzh.; ZHUYKO, Yu.P.; SEDLOV, M.G.

Effect of short-delay blasting on the extent of the seismic effect
of large-scale blasting. Ger. zhur. no.8:25-28 Ag '63.

(MIRA 16:9)

1 Vsesoyuznyy nauchno-issledovatel'skiy gorno-metallurgicheskiy in-
stitut tsvetnykh metallov (for Pozdnyakov, Nelyubov, Serdyukov).2.
Zyryanovskiy svintsovyi kombinat (for Zhuyko, Sedlov.).

(Blasting)

SERDYUKOV, A. R.

"The First Large School of Physics in Russia," Nature, 2nd Printing House of the
Publ. Co. of the AS USSR Moscow, No. 4, 1952.

BRADY, A. R.

BRADY, A. R. -- "The Role of P. N. Lebedev and His School in the Organization and Development of Russian Physics." Cand Phys-Math Sci, Moscow State U, Moscow / 1953. (Referativnyi Zhurnal--Fizika, Jan 54)

CO: BRADY: 168, 22 July 1954

SERDYUKOV, A.R.

Toward the history of Soviet jet technology; plans by P.N. Lebedev of engines
for aerial flight. Usp.fiz.nauk 50 no.2:309-313 Je '53. (MLRA 6:7)
(Lebedev, Petr Nikolaevich, 1866-1912) (Aeroplanes--Jet propulsion)

Serdyukov, A.R.

3-2-28/32

AUTHOR: Serdyukov, A.R., Candidate of Physico-Mathematical Sciences

TITLE: Petr Nikolayevich Lebedev (Petr Nikolayevich Lebedev)

PERIODICAL: Vestnik vysshey shkoly, Feb 1957, # 2, p 78-83 (USSR)

ABSTRACT: The article contains a summary of the pedagogical principles of the prominent Russian physicist P.N. Lebedev, who worked as a professor at Moscow University for 18 years and died at the age of 46. The article states that while the scientific work of P.N. Lebedev has been thoroughly studied, his activity as an instructor and the methods of his scientific work within the conditions of a university have been but little elucidated in the press. The article contains several examples of his method of teaching as related by his students.

AVAILABLE: Library of Congress

Card 1/1

SERDYUKOV, A.R.

Letter from P.N.Lebedev to N.A.Umov. Vop.ist.est.1 tekhn.
no.8:106-108 '59. (MIRA 13:5)
(Stoletov, Aleksandr Grigor'evich, 1839-1896)
(Lebedev, Petr Nikolaevich, 1866-1912)

SERDYUKOV, A.R.

Microradio waves in the works of P.N. Lebedev and his school.
Vop.ist.est.i tekhn. no.9:10-102-110.'60. (MIRA 13:7)
(Microwaves)

SANIN, A.A. Prinimala uchastiye TITOVA, T.A., aspirantka; KOZODAYEV, M.S., red.; SERDYUKOV, A.R., red.; SHCHUKIN, Ye.D., red.; MURASHOVA, N.Ya., tekhn. red.

[Radio engineering methods for studying radiation] Radiotekhnicheskie metody issledovaniia izlucheni. Pod red. M.S.Kozodaeva. Moskva, Gos.izd-vo tekhniko-teoret.lit-ry, 1951. 388 p. (MIRA 15:1)

1. Moskovskiy Gosudarstvennyy universitet (for Titova). (Amplifiers (Electronics)) (Pulse techniques (Electronics))

SERDYUKOV, A.T.

Increasing labor productivity at oil refineries. Proizv. smaz.
mat. no.3:3-8 '57. (MIRA 10:12)

1. Pervyy Moskovskiy neftemaslozavod.
(Materials handling) (Petroleum refineries)

SERDYUKOV, A. V.

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Growing primrose (*Primula abchasica* Sosn.). Biul.Glav.bot.sada no.14:
99-101 '52. (MLRA 6:5)

1. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR. (Primroses)

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(Water lilies)

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Country : USSR
 Category : CULTIVATED PLANTS. Ornamental.
 Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-9 6201
 Author : Serdyukov, B.V.
 Institut. : Tiflis Botanical Garden, AS Georgian SSR
 Title : An Experiment in Cultivating Perennial Phlox at
 Tiflis Botanical Garden.
 Orig. Pub. : Vestn. Tbilissk. botan. sada. AN GruzSSR, 1957,
 No. 64, 45-54
 Abstract : A nearly complete absence of perennial summer
 phlox (*Phlox paniculata* L.) has been observed
 in the ornamental plantings of Trans-Caucasia.
 The work of the Tiflis Botanical Garden in devel-
 oping a new variety of perennial phlox from seed
 is described. With forced self-pollination of
 the phlox, the seeds did not set. Selection was
 performed from a generation obtained by natural
 intervarietal pollination. The conditions and
 methods are reported which were used in the
 Card: . 1/2

198

Country :
Category : CULTIVATED PLANTS. Ornamental.

M

Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96201

Author :
Institution :
Title :

Orig. Pub. :

Abstract : cultivation and selection of the seedlings
obtained. Various methods of vegetative reproduc-
tion have also been tested. Twelve promising
numbers of phlox which have been developed are
now undergoing variety trial.--N.S. Labedava

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1. Novocherkasskiy politekhnicheskii institut im. S. Ordzhonikidze.
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(Belorechenskiy region--Ore deposits) (Mineralogy)

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(KL, 1-61, 185)

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